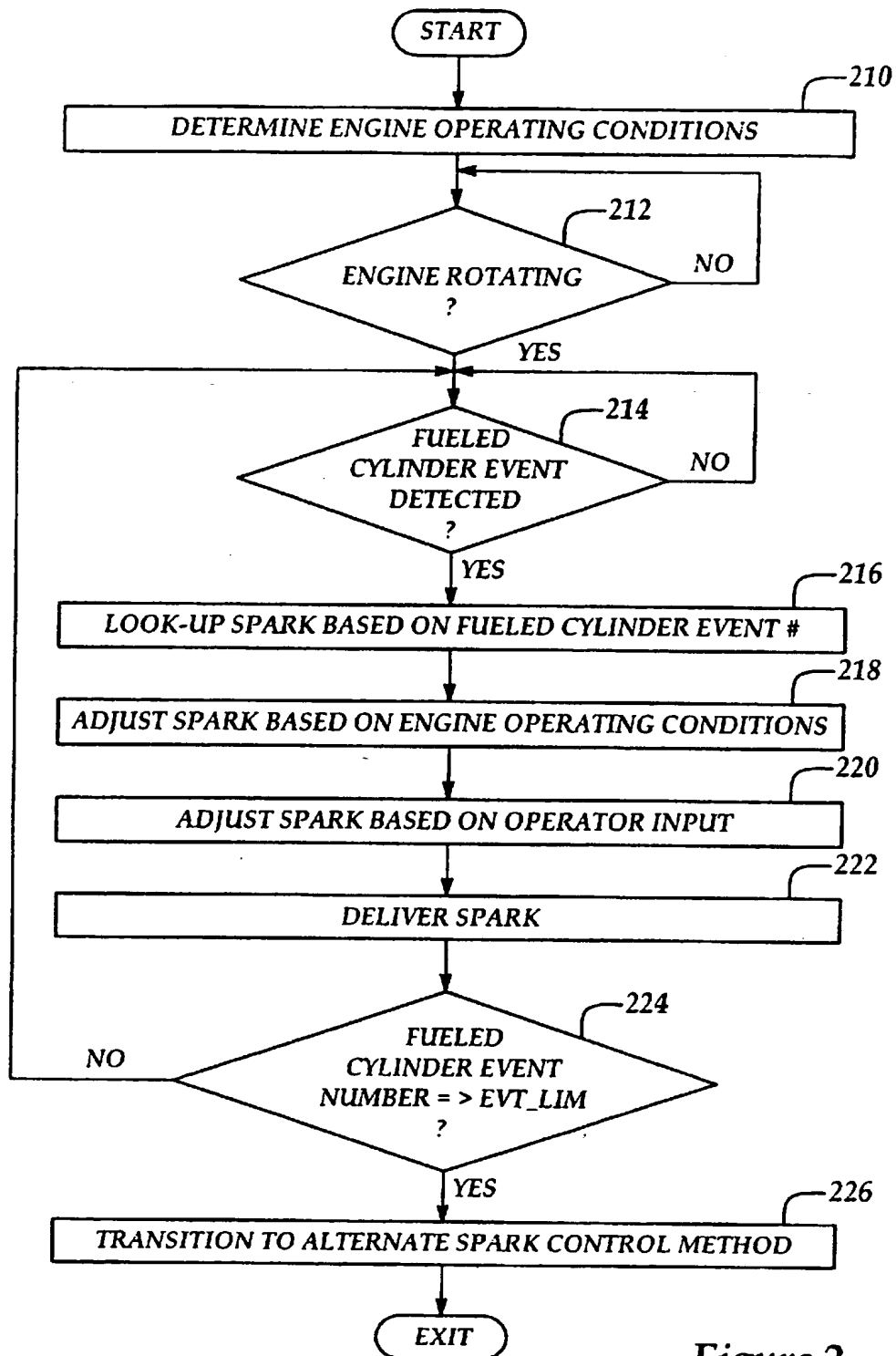


Figure 1

Figure 2

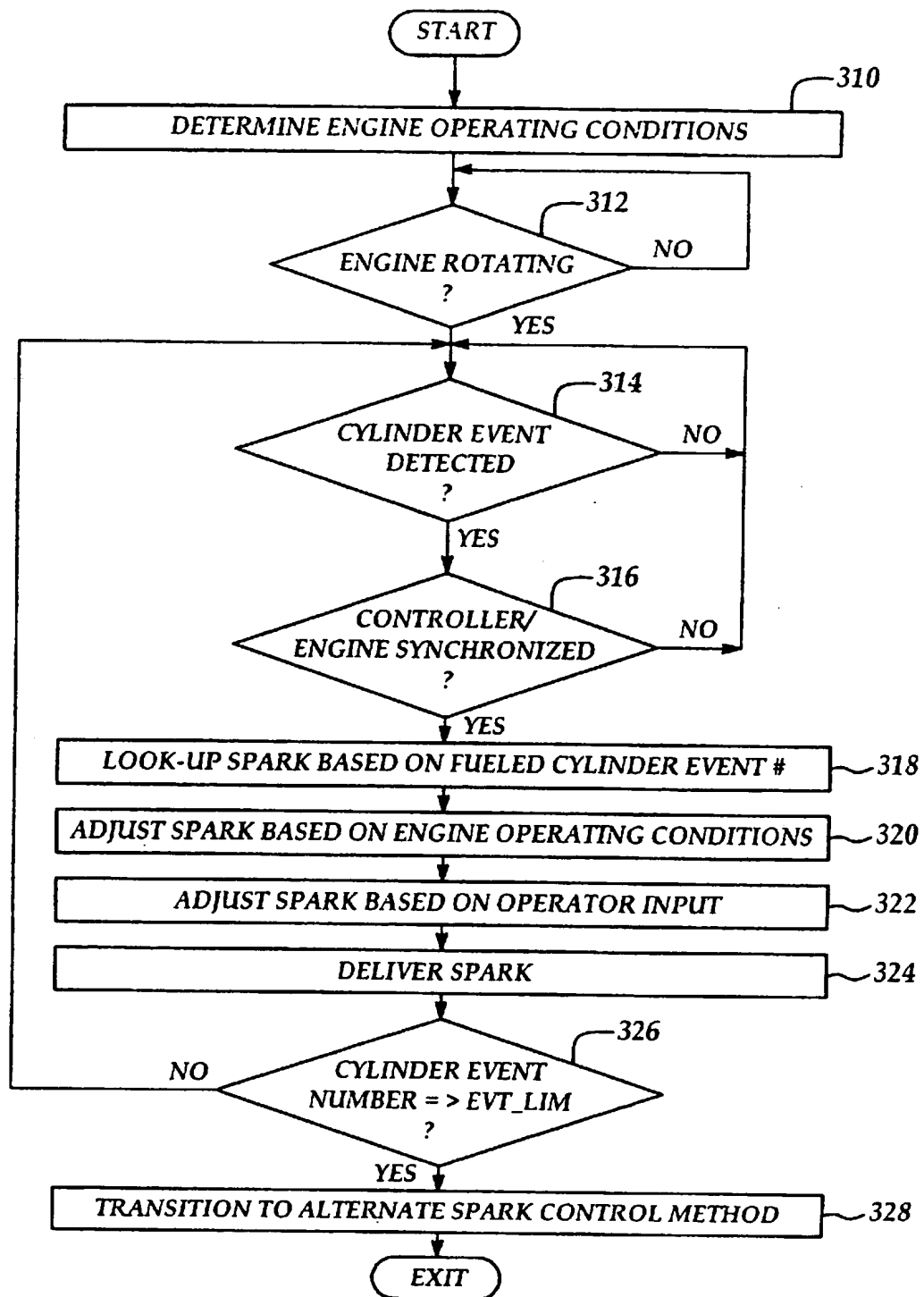
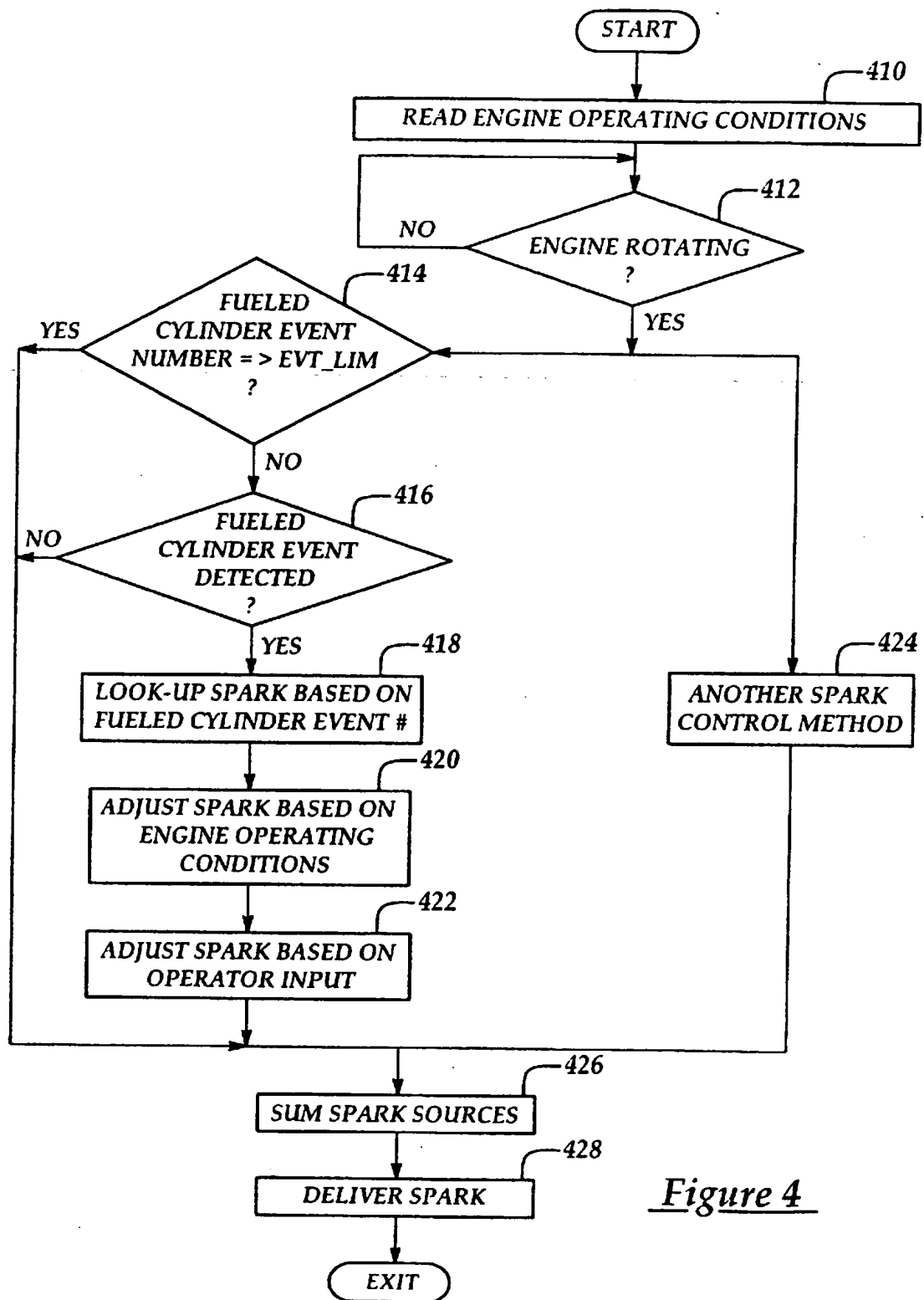
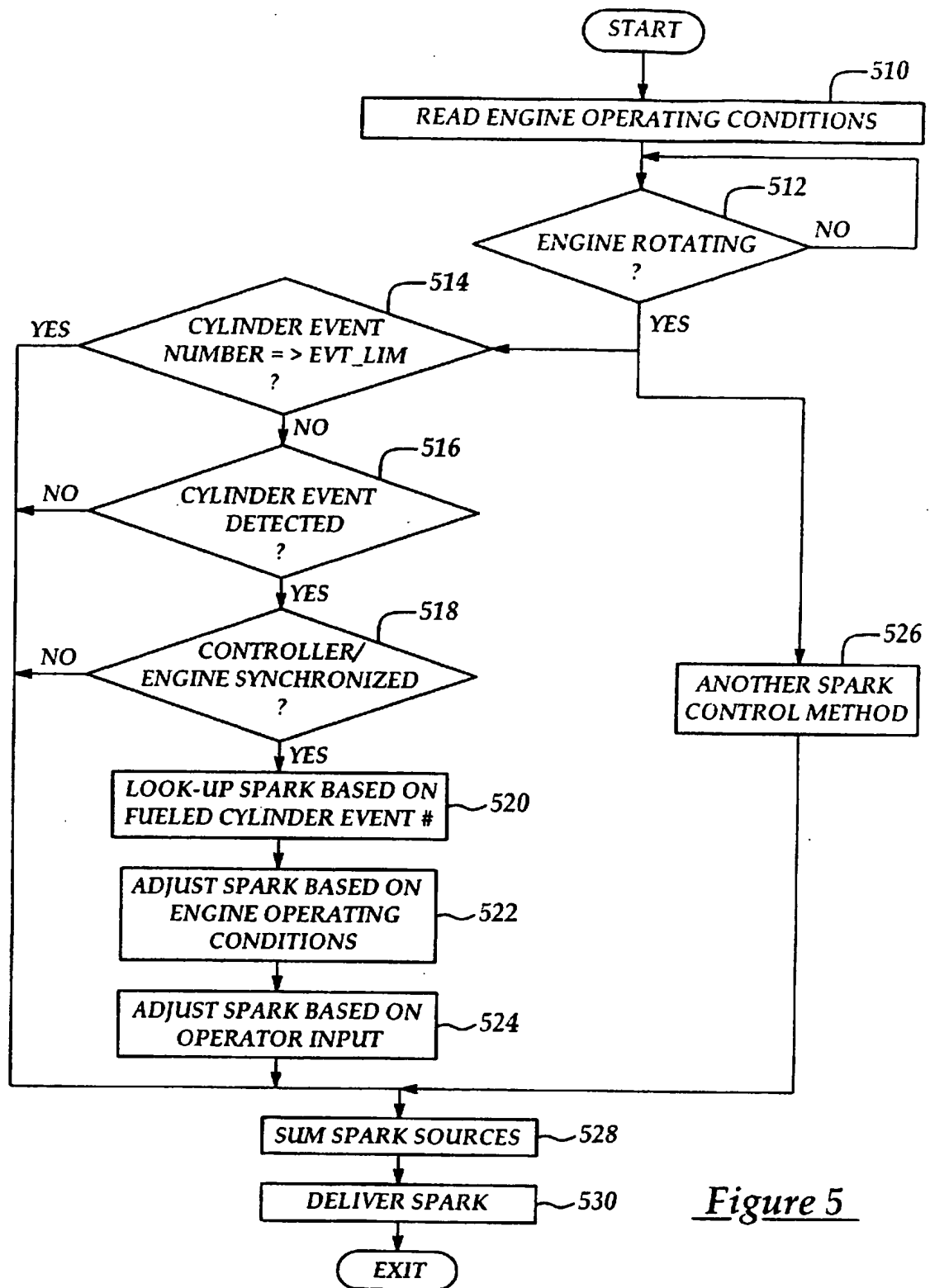
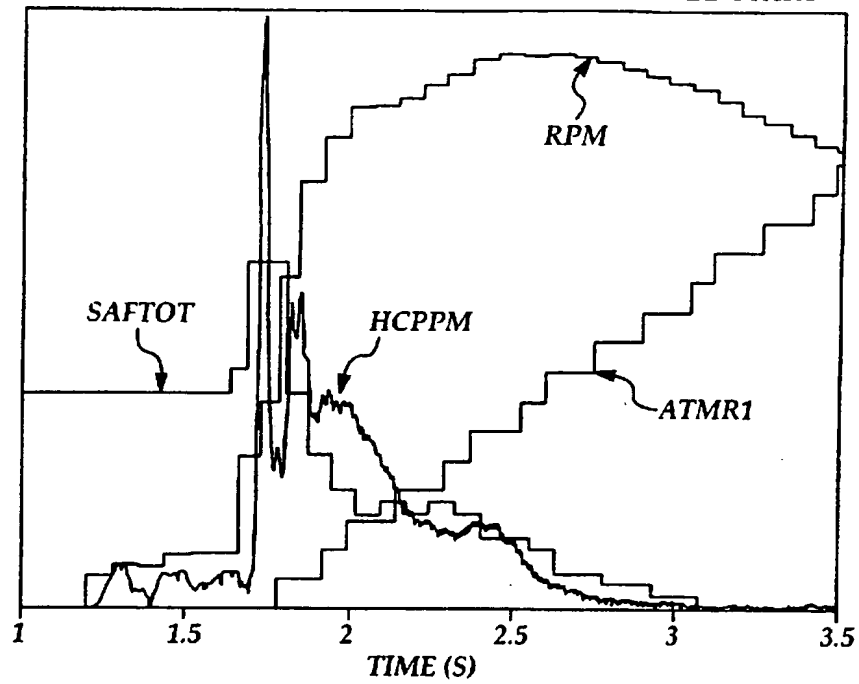


Figure 3

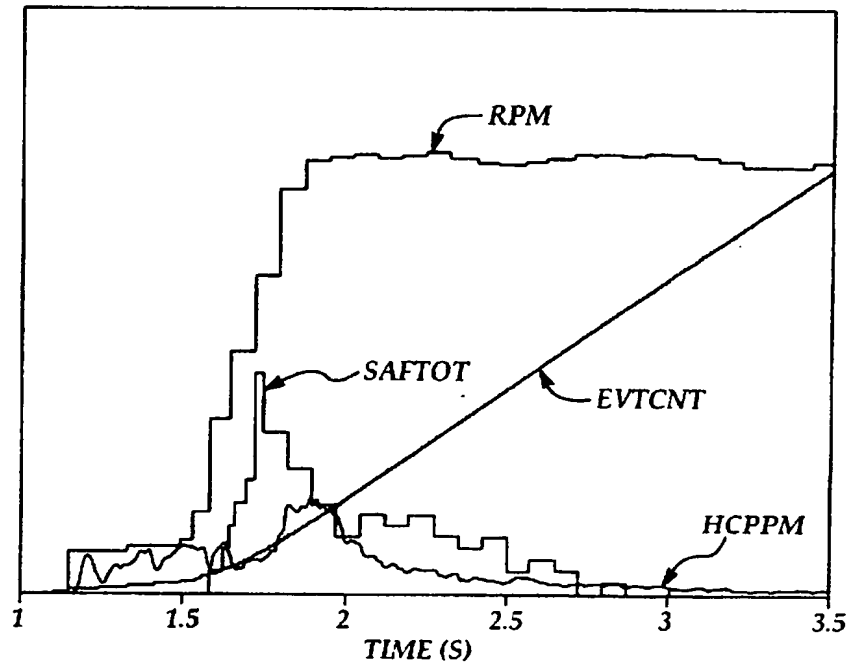
*Figure 4*

*Figure 5*

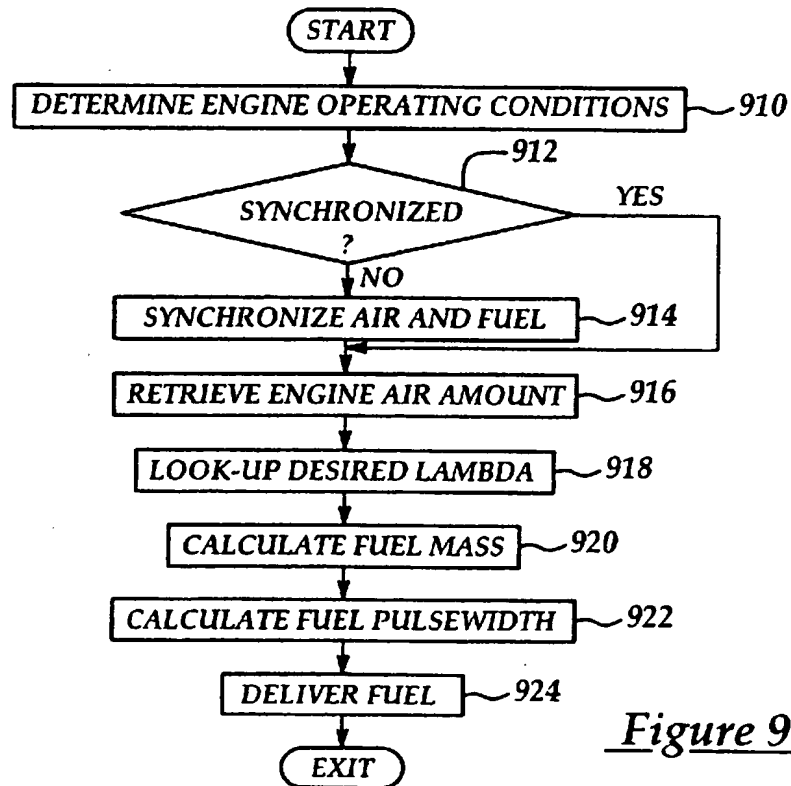
## TIME BASED SPARK CONTROL DURING A COLD START

Figure 6

## EVENT BASED SPARK CONTROL DURING A COLD START

Figure 7

	FNEVTSPK					
16	10	9	5	6	6	10
15	10	9	5	6	6	10
14	10	9	5	6	6	10
13	10	9	5	6	6	10
12	10	9	5	6	6	10
11	10	9	5	6	6	10
10	10	9	4	6	6	10
9	10	9	4	6	6	10
8	10	9	3	5	6	10
7	10	9	2	5	6	10
6	10	8	1	3	6	8
5	10	8	1	3	4	8
4	10	8	0	1	4	8
3	10	8	-2	0	3	6
2	10	8	-2	0	3	6
1	10	5	-3	-1	2	6
0	10	5	-3	-1	2	6
	-20	20	70	150	180	210

Figure 8Figure 9

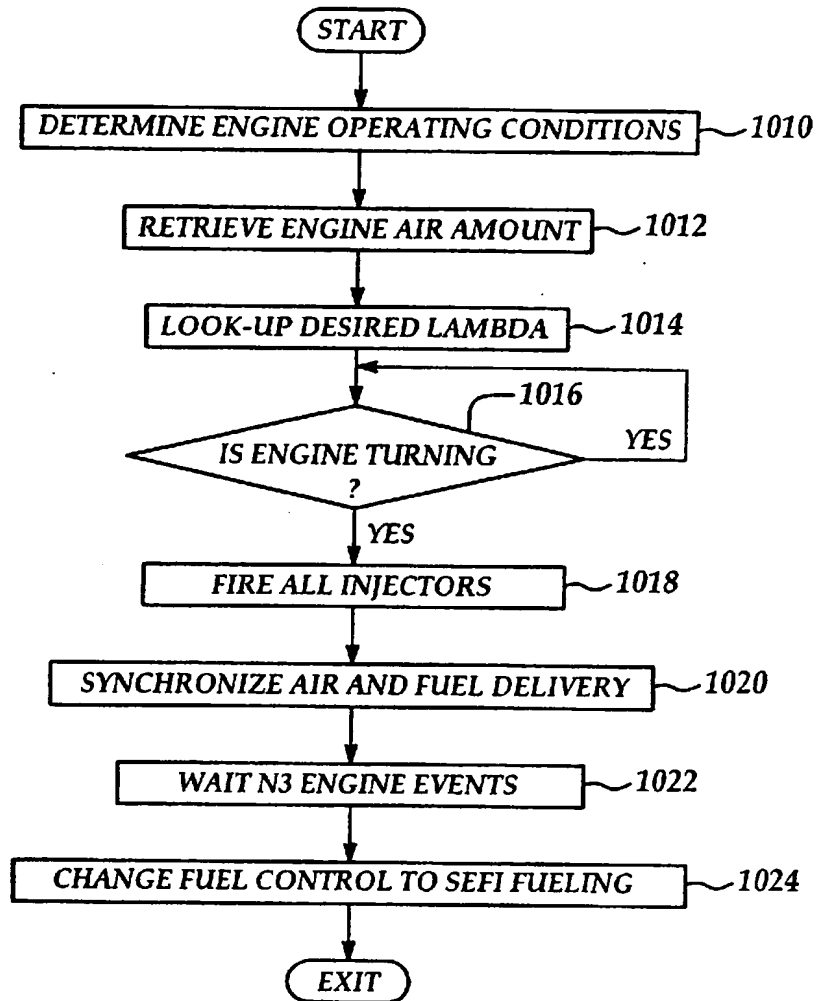


Figure 10